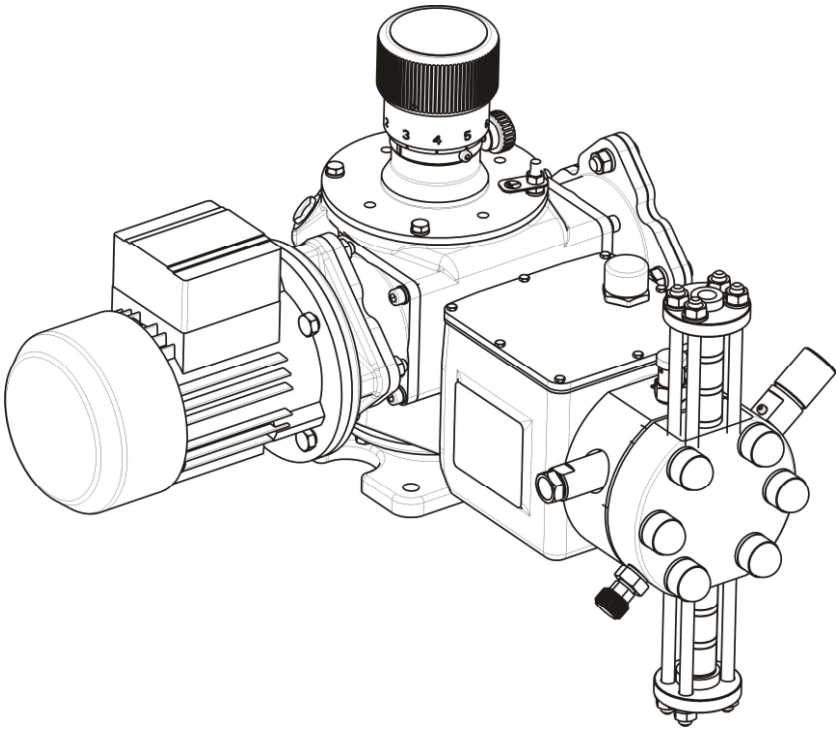


Technical characteristics

- Flow rates: from 0,22 to 19,0 lph @ 50Hz
- Max Pressure: 120 bar
- Ambient temperature: -10 °C + 40 °C
- Max altitude: 1000 m (A.S.L.)
- Fluid operating temperature: -10 °C + 70 °C
- Viscosity up to 1000 cP (Higher on request)
- Stroke adjustment during operation from 0 to 100%
- Accuracy ± 1 % on the turndown ratio 10:1
- Built-in overpressure valve
- Min NPSHr: 3 mwc → High suction capability
- Double diaphragm and diagnostic of the rupture
- Diaphragm duration up to 20.000 hours, depending of the application
- Multiheads (up to six) solutions
- API 675 compliance
- CE marking
- ATEX Ex II 2 G c IIB T4 compliance
- Protection: IP 55
- Epoxy painting at 125 micron

nexa series includes plunger and hydraulic diaphragm dosing pumps designed in compliance with **API 675 Standards**; the conformity to the API Standards implies a “heavy duty” design, high safety and severe controls of the performances during the tests. The broad variety of heads execution offers a wide selection of dosing pumps to cover practically any application needs. In addition the full compliance with the **ATEX** European Directive gives the possibility to install these pumps in classified areas too.

Mechanism

Available in different sizes, they are mechanical return type, giving the maximum reliability in all working conditions.

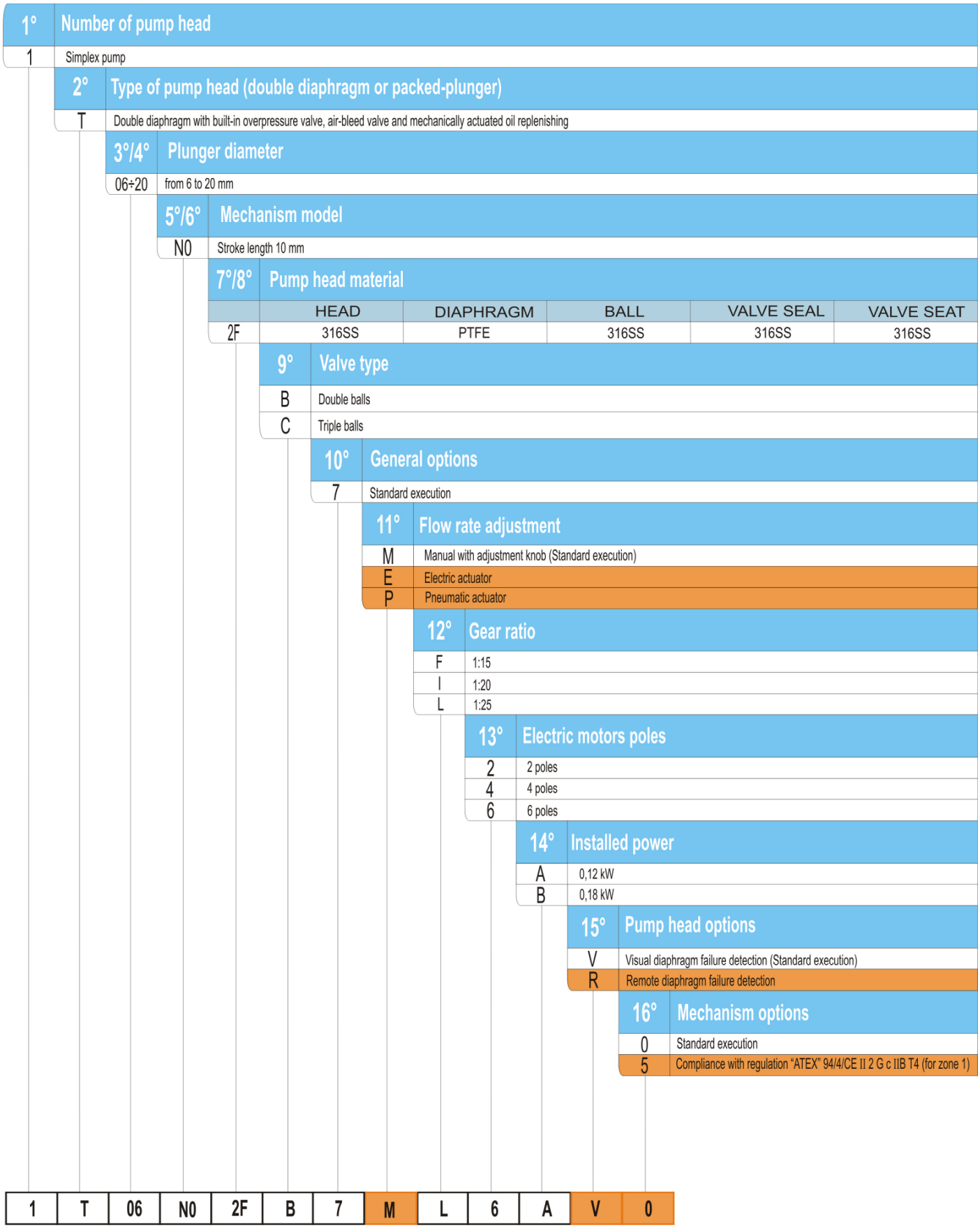
General Specifications:

- Low noise integral gearbox, worm type, oil bath lubricated
- Reduced energy consumption based on low friction rolling bearings design
- High flexibility multiple mechanism solution to permit different piston speeds (SPM) on the same group
- Micrometric stroke lenght adjustment both manually and/or automatically actuated.
- Automatic stroke length variation by electrical servomotor, pneumatic actuator or frequency converter
- Linearity and repeatability in compliance with API 675 Standards.
- Easy “on field” installation of electrical servomotor on manual stroke adjustment mechanism.

Diaphragm Pumphead

- High capacity flexibility→ On site easy volume changing by changing the piston cartridge
- Easy to change spares parts (all “one cartridge” solution).
- Maximum compatibility PTFE diaphragm
- Visual or remote diaphragm failure detection

PUMP KEY CODE



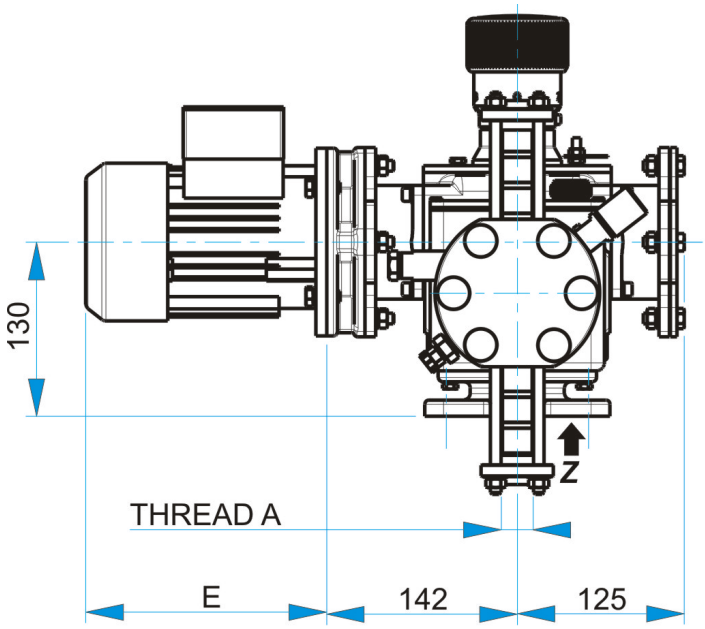
HYDRAULIC CHARACTERISTICS

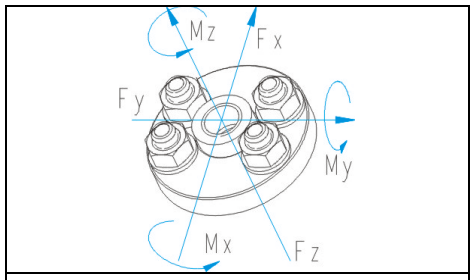
Performances:	50 Hz	60Hz
	0,22/19,0 l/h	gph 0.07/6.02
	120/57 bar	p.s.i. 1740/827

Liquid end material: 316L

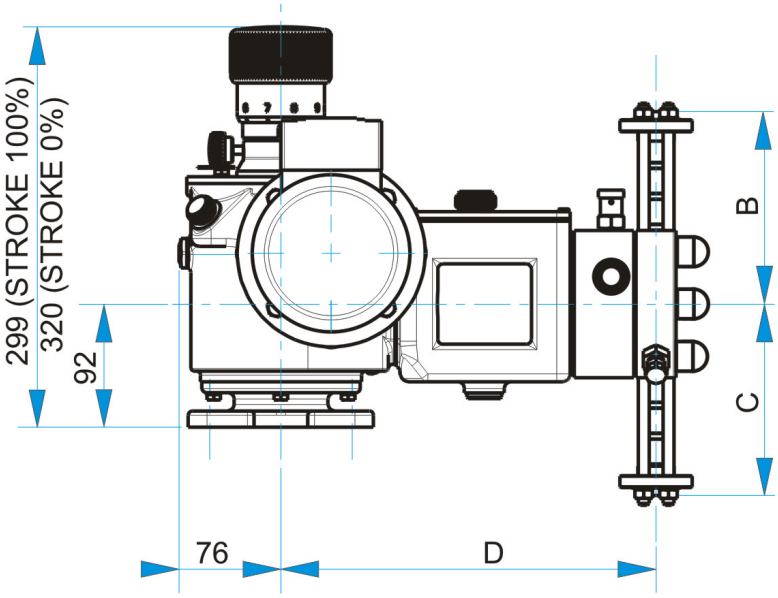
Pump Model	Flow rate at max pressure lph	Flow rate at max pressure gph	Max speed Strokes /min	Flow rate at max pressure lph	Flow rate at max pressure gph	Max speed Strokes /min	Electric motor kW 0,12 A Max pressure bar	Electric motor kW 0,12 A Max pressure p.s.i.	Electric motor kW 0,18 B Max pressure bar	Electric motor kW 0,18 B Max pressure p.s.i.	Suc/Dis Connec Ø BSPP
1 T 0 6 N 0 2 F C 7 M L 6 A V 0	0,22	0,06	37	0,27	0,07	45	120	1740	-	-	1/4" F
1 T 0 6 N 0 2 F C 7 M I 6 A V 0	0,30	0,08	47	0,37	0,10	56	120	1740	-	-	1/4" F
1 T 0 6 N 0 2 F C 7 M L 4 A V 0	0,38	0,10	56	0,45	0,12	67	120	1740	-	-	1/4" F
1 T 0 6 N 0 2 F C 7 M I 4 A V 0	0,49	0,13	70	0,59	0,16	84	120	1740	-	-	1/4" F
1 T 0 6 N 0 2 F C 7 M F 4 A V 0	0,68	0,18	93	0,81	0,21	112	120	1740	-	-	1/4" F
1 T 0 6 N 0 2 F C 7 M L 2 B V 0	0,83	0,22	112	1,00	0,26	134	-	-	120	1740	1/4" F
1 T 0 8 N 0 2 F C 7 M I 6 A V 0	0,78	0,21	47	0,94	0,25	56	120	1740	-	-	1/4" F
1 T 0 8 N 0 2 F C 7 M L 4 A V 0	0,97	0,26	56	1,16	0,31	67	120	1740	-	-	1/4" F
1 T 0 8 N 0 2 F C 7 M I 4 A V 0	1,25	0,33	70	1,51	0,40	84	120	1740	-	-	1/4" F
1 T 0 8 N 0 2 F C 7 M F 4 A V 0	1,73	0,46	93	2,07	0,55	112	120	1740	-	-	1/4" F
1 T 0 8 N 0 2 F C 7 M L 2 B V 0	2,12	0,56	112	2,54	0,67	134	-	-	120	1740	1/4" F
1 T 1 0 N 0 2 F C 7 M I 6 A V 0	1,25	0,33	47	1,50	0,40	56	120	1740	-	-	1/4" F
1 T 1 0 N 0 2 F C 7 M L 4 A V 0	1,64	0,43	56	1,97	0,52	67	120	1740	-	-	1/4" F
1 T 1 0 N 0 2 F C 7 M I 4 A V 0	2,24	0,59	70	2,69	0,71	84	120	1740	-	-	1/4" F
1 T 1 0 N 0 2 F C 7 M F 4 A V 0	3,23	0,85	93	3,88	1,03	112	120	1740	-	-	1/4" F
1 T 1 0 N 0 2 F C 7 M L 2 B V 0	4,05	1,07	112	4,86	1,29	134	-	-	120	1740	1/4" F
1 T 1 2 N 0 2 F C 7 M I 6 A V 0	2,27	0,60	47	2,72	0,72	56	120	1740	-	-	1/4" F
1 T 1 2 N 0 2 F C 7 M L 4 A V 0	2,71	0,72	56	3,25	0,86	67	120	1740	-	-	1/4" F
1 T 1 2 N 0 2 F C 7 M I 4 A V 0	3,40	0,90	70	4,09	1,08	84	120	1740	-	-	1/4" F
1 T 1 2 N 0 2 F C 7 M F 4 A V 0	4,54	1,20	93	5,45	1,44	112	120	1740	-	-	1/4" F
1 T 1 2 N 0 2 F C 7 M L 2 B V 0	5,48	1,45	112	6,58	1,74	134	-	-	120	1740	1/4" F
1 T 1 5 N 0 2 F B 7 M I 6 A V 0	3,97	1,05	47	4,76	1,26	56	107	1552	-	-	1/4" F
1 T 1 5 N 0 2 F B 7 M L 4 A V 0	4,68	1,24	56	5,61	1,48	67	107	1552	-	-	1/4" F
1 T 1 5 N 0 2 F B 7 M I 4 A V 0	5,78	1,53	70	6,94	1,83	84	107	1552	-	-	1/4" F
1 T 1 5 N 0 2 F B 7 M F 4 A V 0	7,76	2,05	93	9,31	2,46	112	95	1378	-	-	1/4" F
1 T 1 5 N 0 2 F B 7 M L 2 B V 0	9,29	2,46	112	11,15	2,95	134	-	-	95	1378	1/4" F
1 T 2 0 N 0 2 F B 7 M I 6 A V 0	7,8	2,05	47	9,3	2,46	56	57	827	-	-	1/4" F
1 T 2 0 N 0 2 F B 7 M L 4 A V 0	9,3	2,46	56	11,2	2,96	67	57	827	-	-	1/4" F
1 T 2 0 N 0 2 F B 7 M I 4 A V 0	11,7	3,10	70	14,1	3,72	84	57	827	-	-	1/4" F
1 T 2 0 N 0 2 F B 7 M F 4 A V 0	15,7	4,15	93	18,8	4,98	112	57	827	-	-	1/4" F
1 T 2 0 N 0 2 F B 7 M L 2 B V 0	19,0	5,02	112	22,8	6,02	134	-	-	57	827	1/4" F

Test with water @ 20°C.

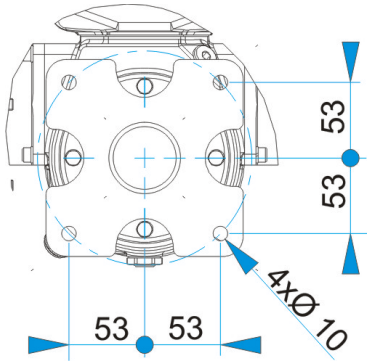




Allowable loads referred to pump nozzles			
Fx	0.10 kN	Mx	0.04 kNm
Fy	0.12 kN	My	0.04 kNm
Fz	0.10 kN	Mz	0.04 kNm



FIXING HOLES – VIEW FROM Z



PUMP MODEL	DIMENSIONS [mm] A	B	C	D	EXTIMATED WEIGHT kg (without motor)
1T06N02FC..	BSPP 1/4"F	144	144	282	30
1T08N02FC..	BSPP 1/4"F	144	144	282	30
1T10N02FC..	BSPP 1/4"F	144	144	282	30
1T12N02FC..	BSPP 1/4"F	149	149	279	30,5
1T15N02FB..	BSPP 1/4"F	126	126	279	30,5
1T20N02FB..	BSPP 1/4"F	149	149	279	30,5

Electric motor size	2 Poles kw	4 Poles kw	6 Poles kw	TEFC 1xM16x1.5		EExde 1xM25x1.5	
				E	kg	E	kg
63	0.18	0.12	0.12	193	4	224	16